Fig. 1

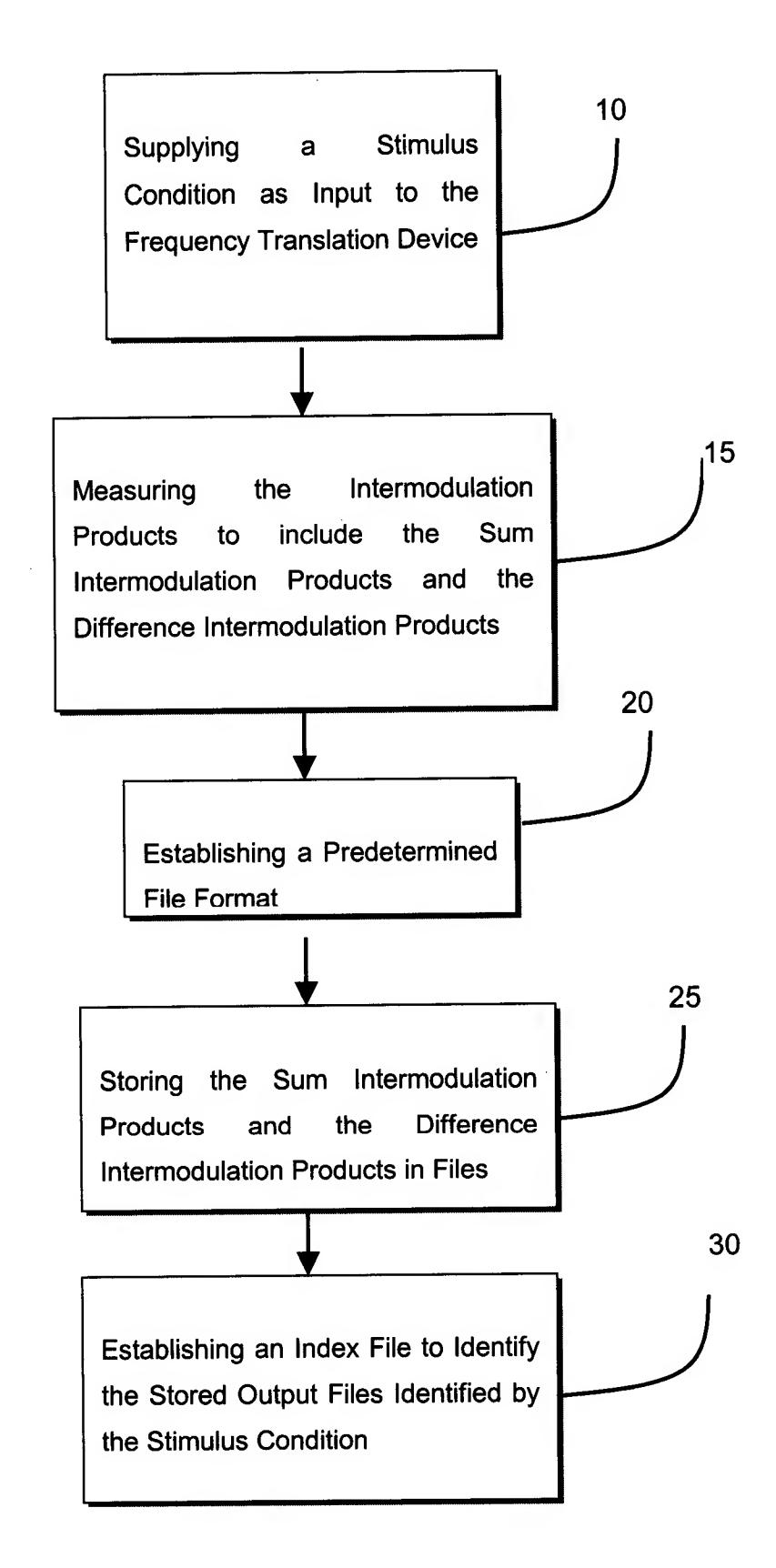


Fig. 2

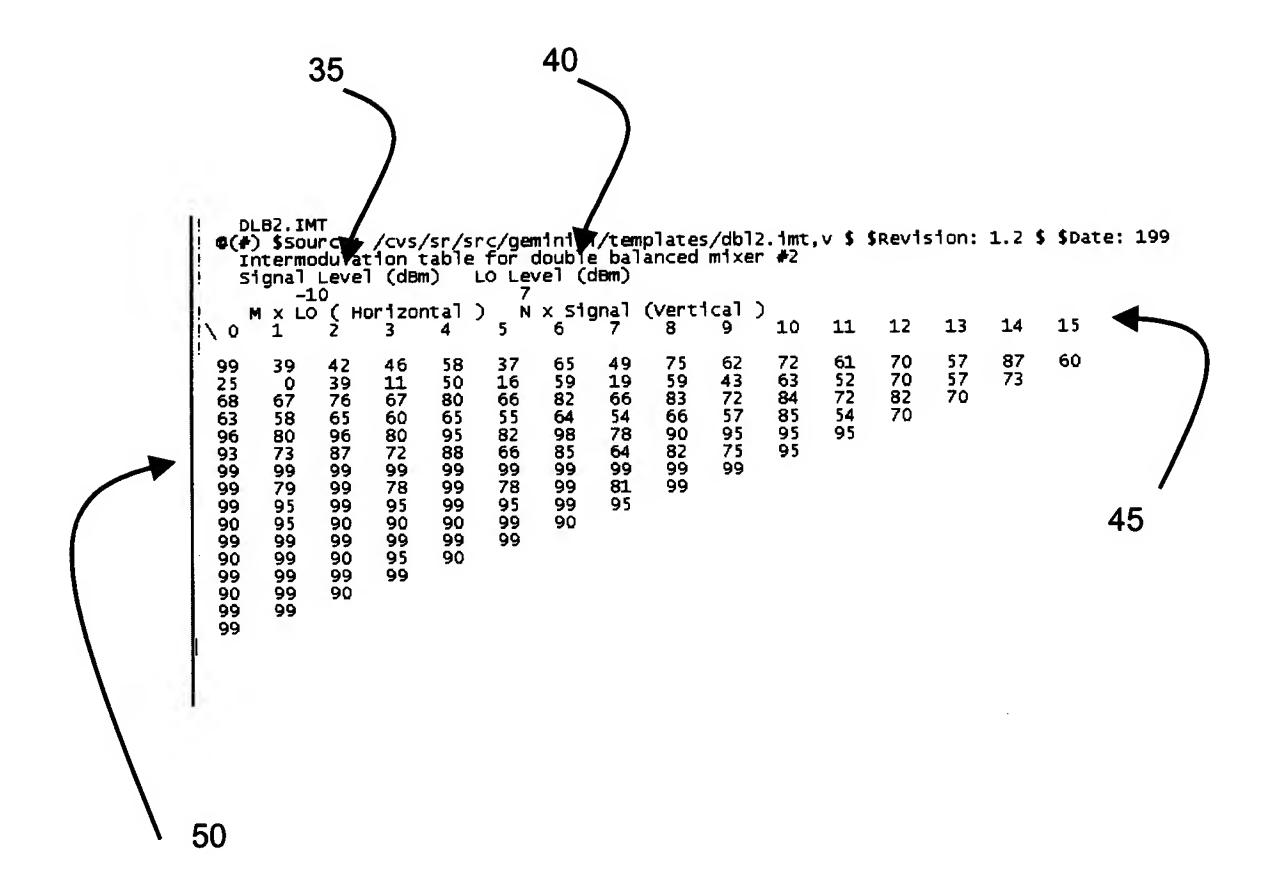


Fig. 4

	60

RF\LO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0	12	23	44	53	67	78	65	87	86	99	99	99	99	99	99	99	15
1	32	0	66	75	86	95	99	99	99	99	99	99	99	99	99	99	14
2	23	43	54	99	99	99	99	99	99	99	99	99	99	99	99	99	13
3	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	12
4	99	99	99	99	99	99	99	99	99	99	99	90	99	99	99	99	11
5	99	99	99	S	ubtr	act	99	99	99	99	99	99	99	99	99	99	10
6	99	99	99	99	99	99	99	99	99	96	99	99	99	99	99	99	9
7	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	8
8	99	99	99	99	99	99	99	6 9	99	99	99	99	99	99	99	99	7
9	99	99	99	99	99	99	99	99	99	70	S	~	99	99	99	99	6
10	99	99	99	99	99	99	99	99	99		Su	 	99	99	99	99	5
11	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	4
12	99	99	99	99	99	99	99	99	99	99	99	99	99	93	99	99	3
13	99	90	99	99	99	99	99	99	99	99	99	99	99	99	99	23	2
14	98	99	99	99	99	99	99	99	99	99	99	99	99	65	10	32	1
15	99	99	99	99	99	99	99	86	87	65	78	67	53	44	23	12	0
	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	RF\LO



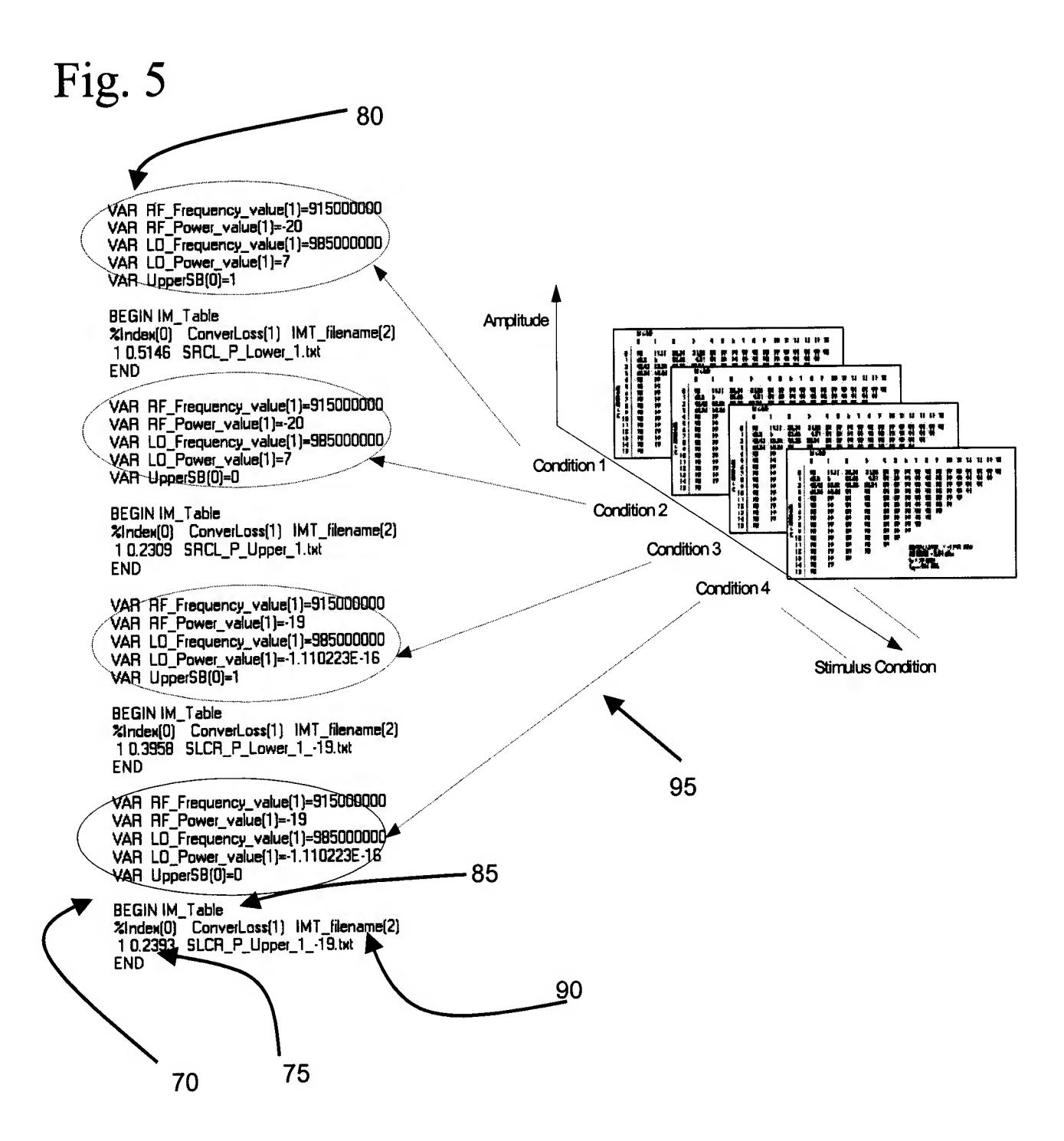


Fig. 6

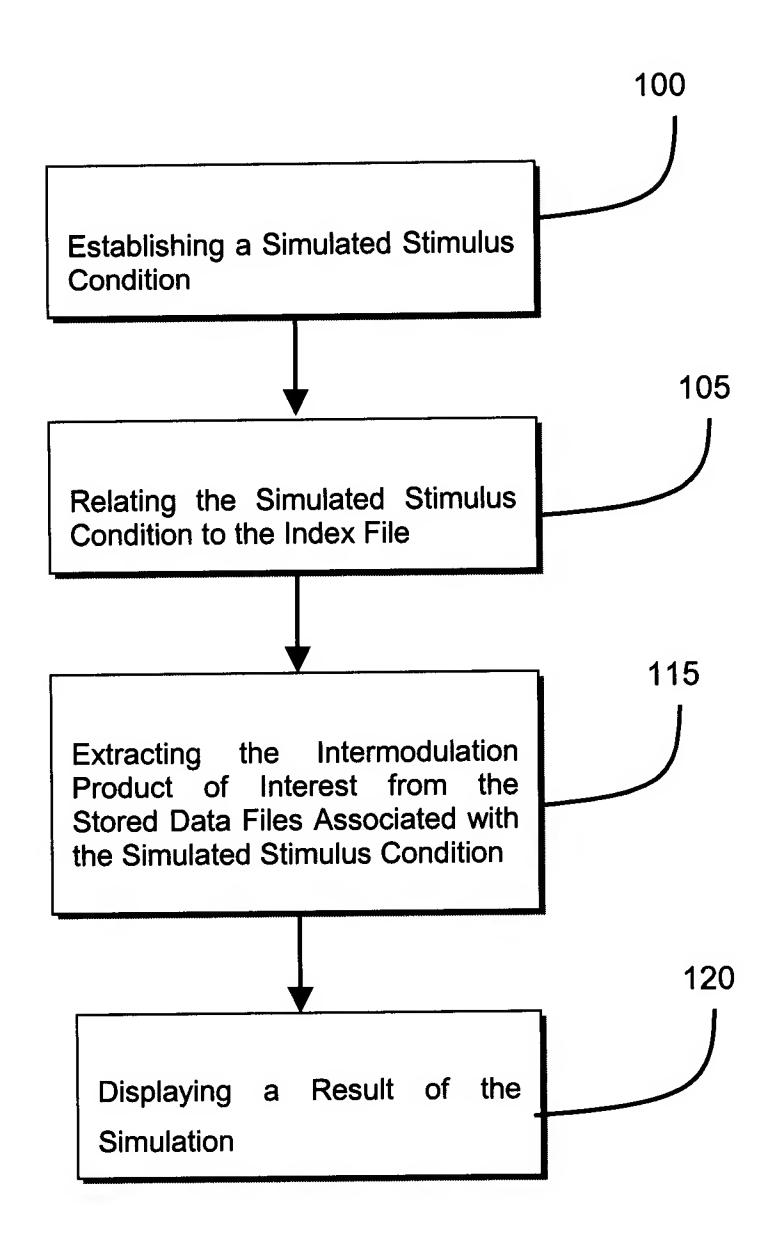


Fig. 7

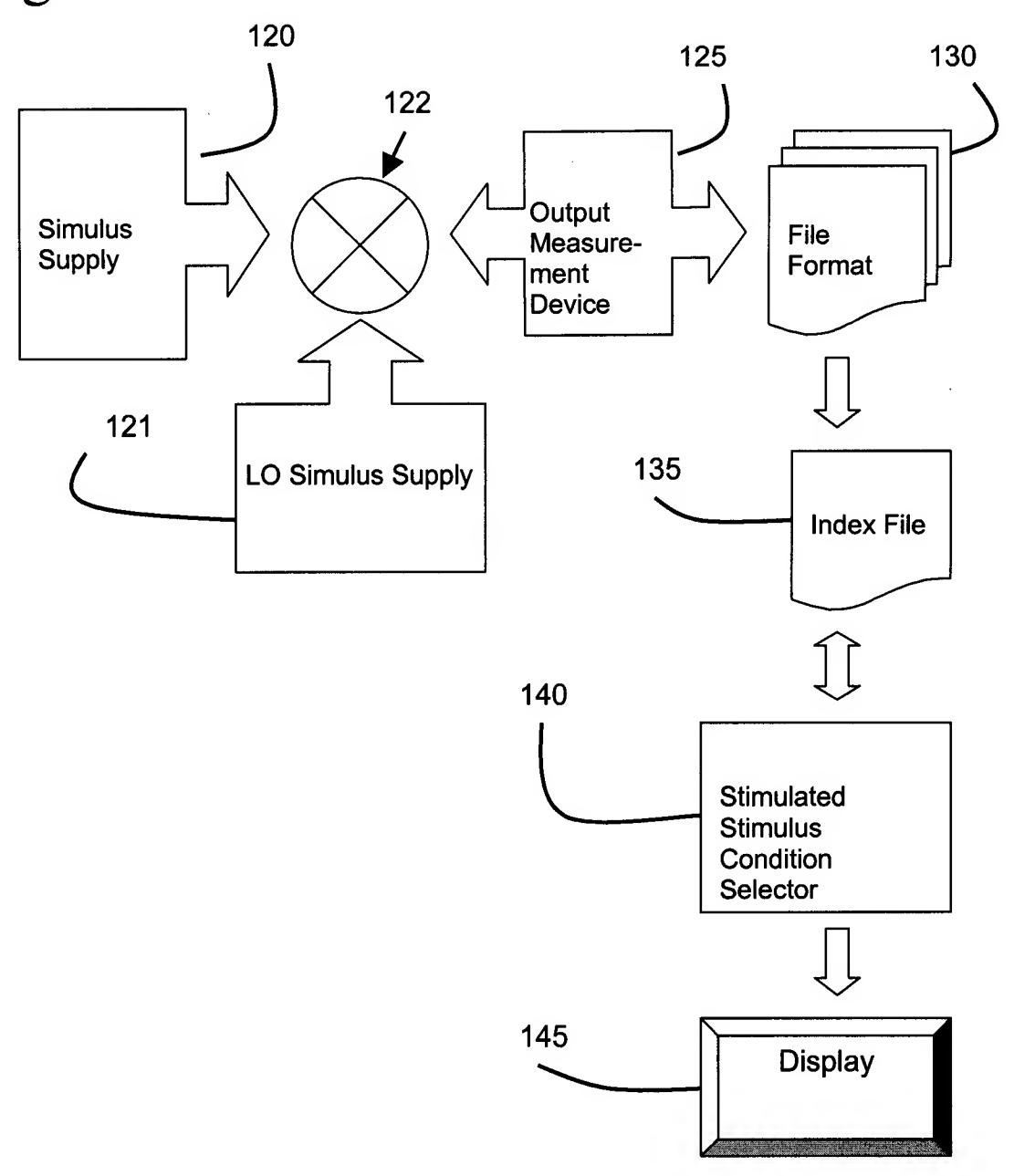


Fig. 8

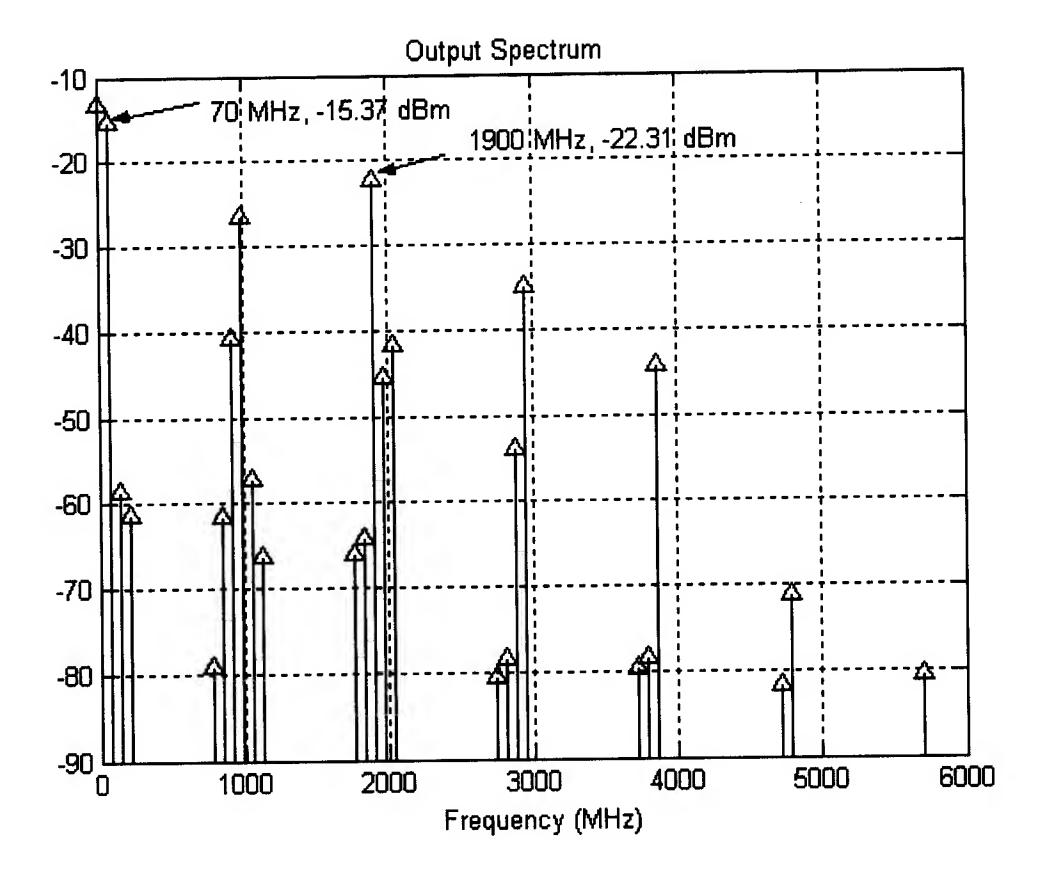


Fig. 9

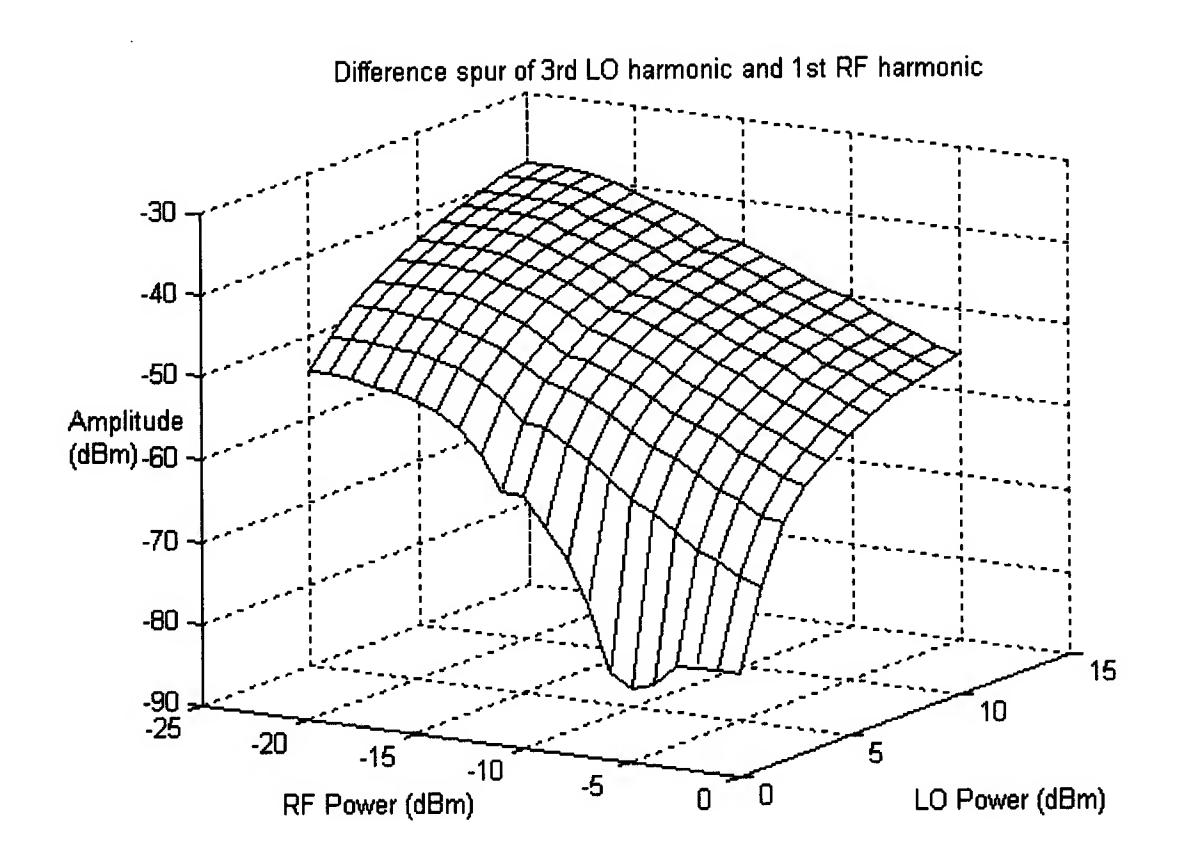
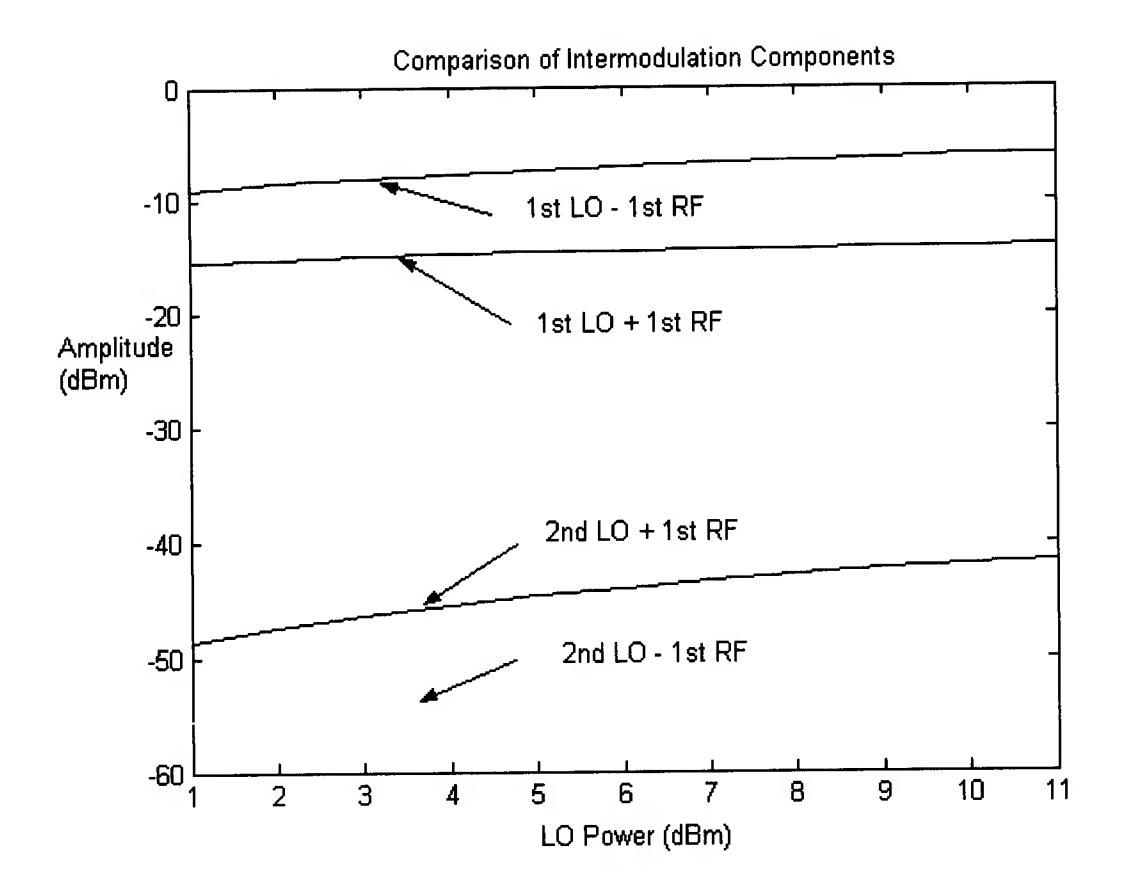
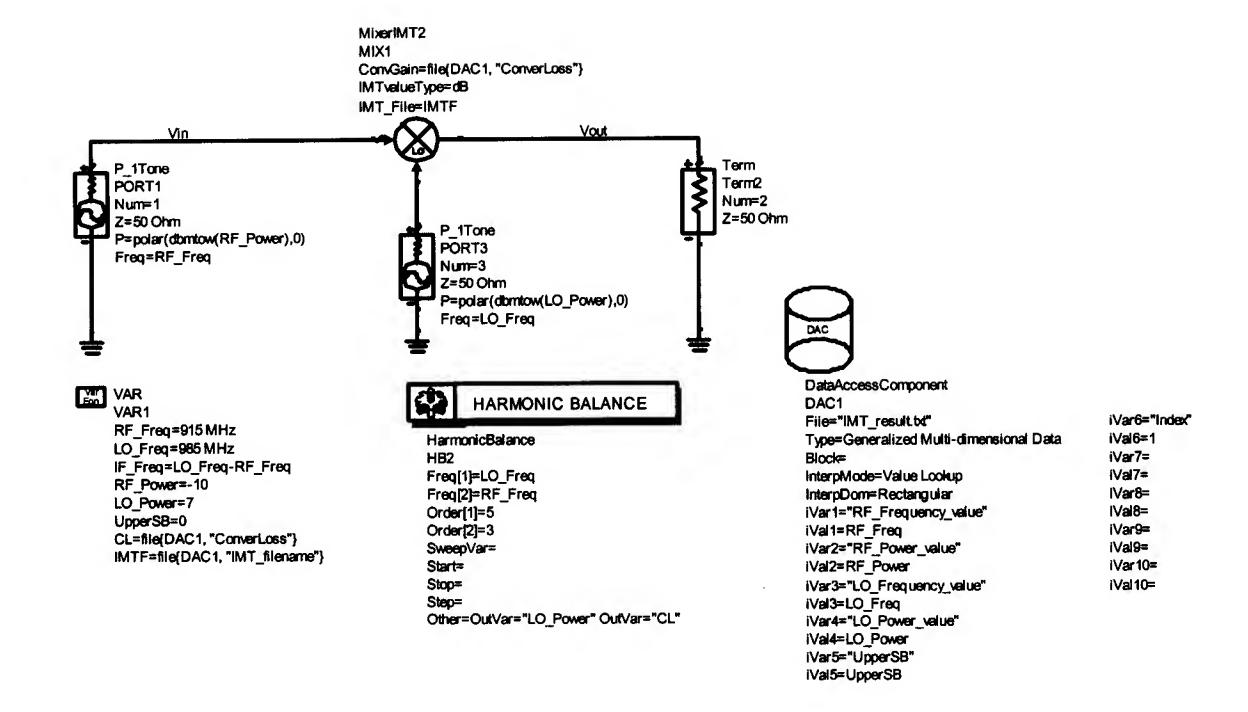


Fig. 10





Stimulus	RF Frequency	RF Power	LO Frequency	LO Power		
condition	915 MHz	-10 dBm	985 GHz	7 dBm		

Fig. 12

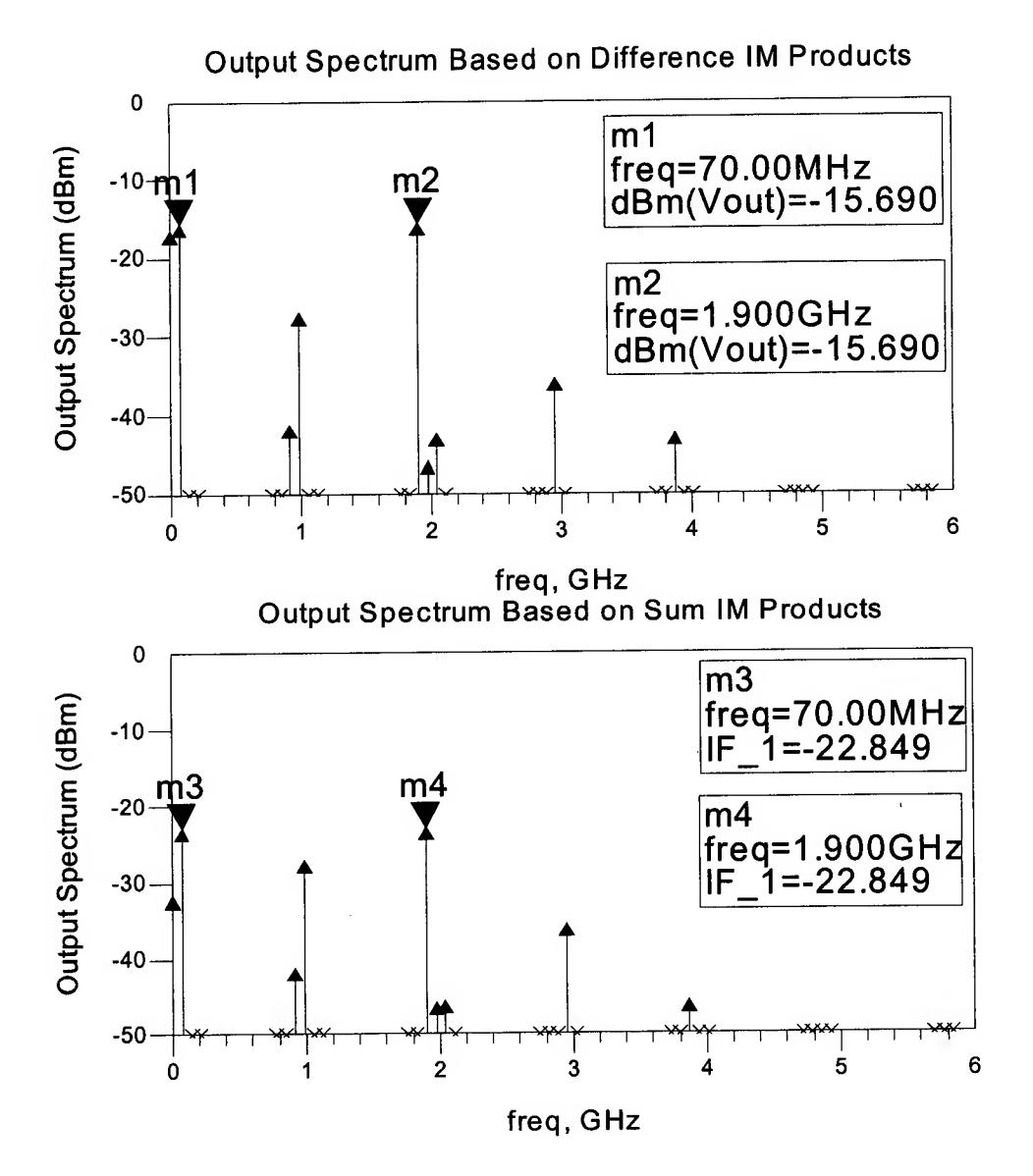
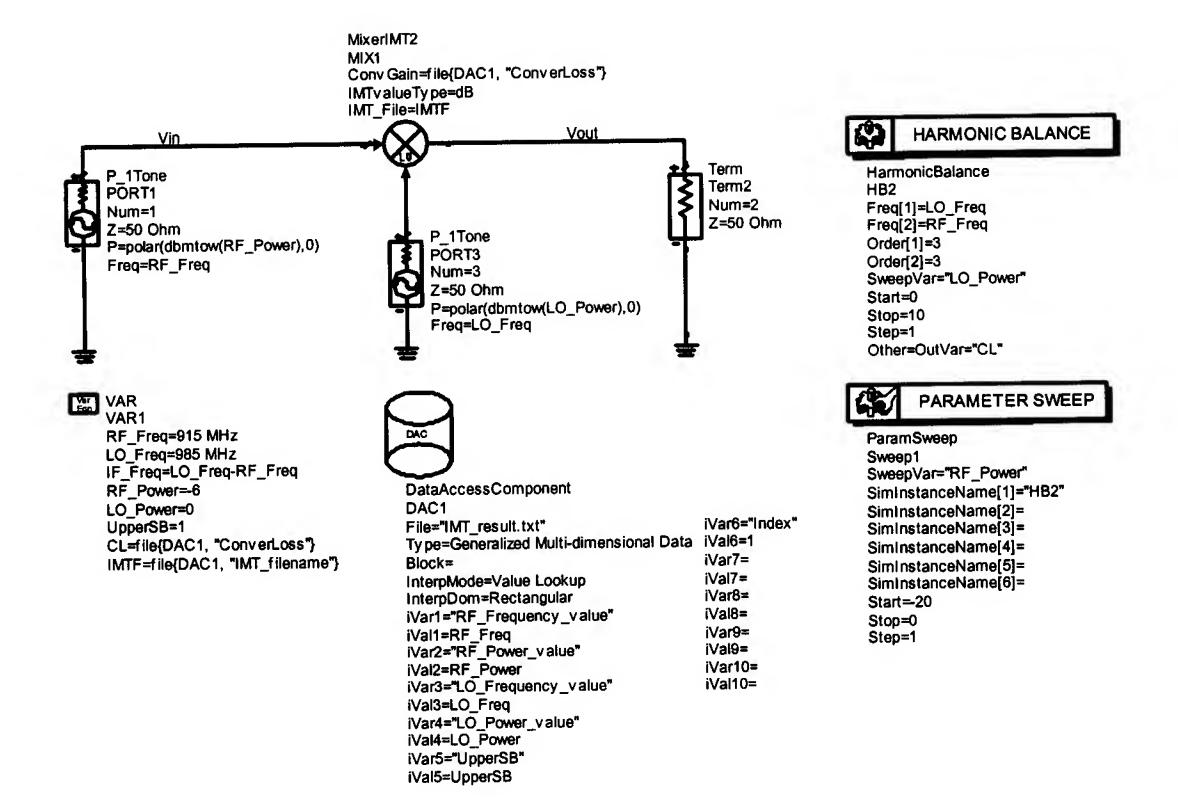


Fig. 13



Stimulus	RF Frequency	RF Power	LO Frequency	LO Power
condition	915 MHz	-20 – 1 dBm	985 GHz	0 – 10 dBm

Fig. 14

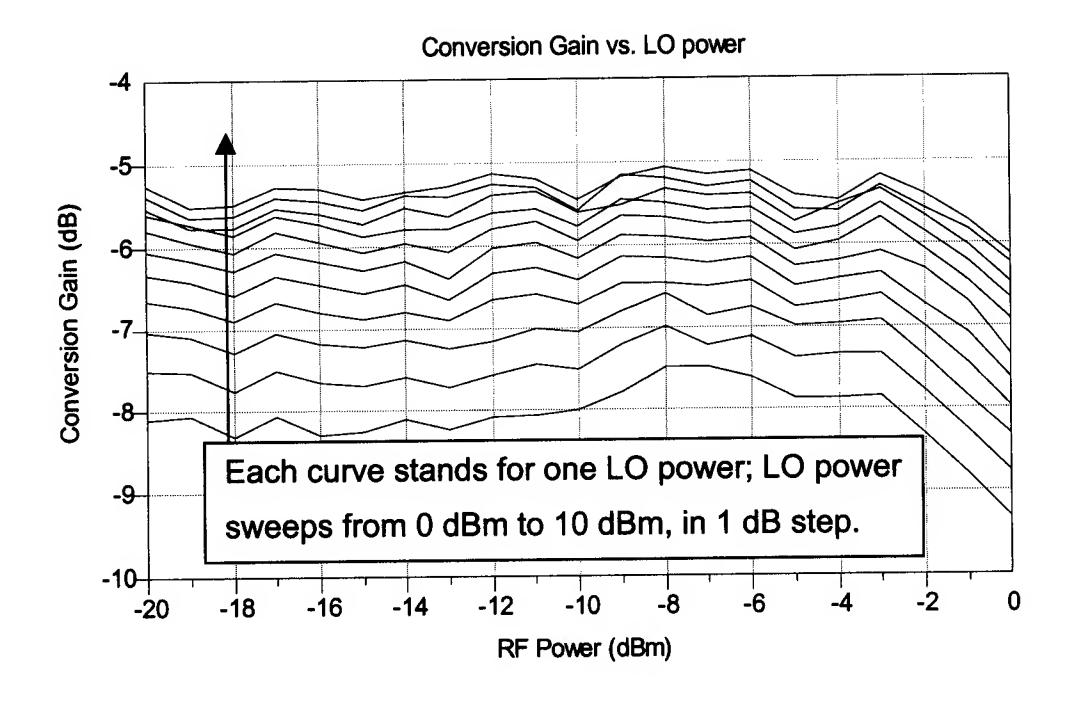


Fig. 15

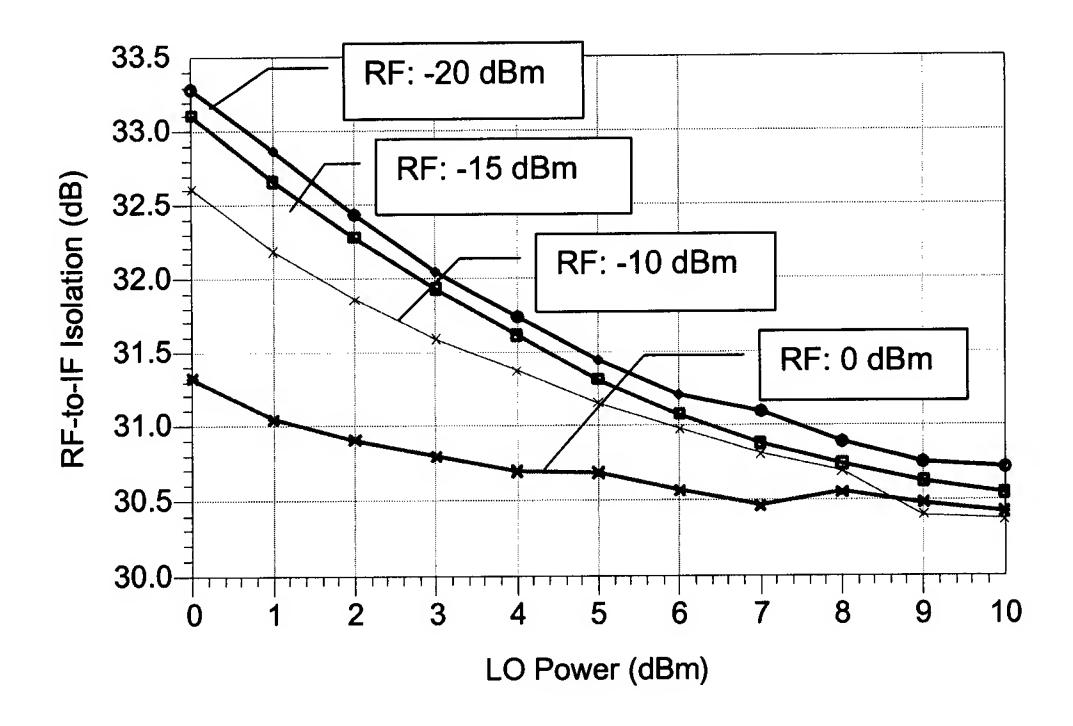
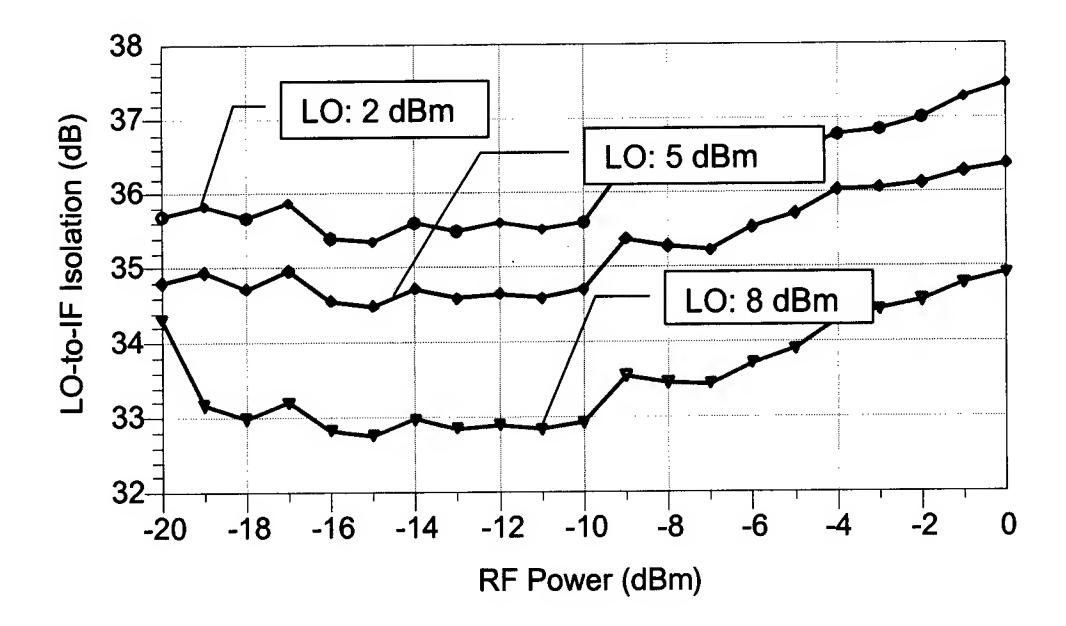
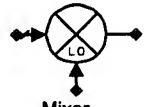


Fig. 16





Mixer

MIX1

SideBand=UPPER

Z2= Z3=

ImpDeltaFreq= ImpMaxOrder=

ImageRej= LO_Rej1=

GainCompType=LIST

ImpWindow=

LO_Rej2= RF_Rej=

GainCompFreq= ReferToInput=OUTPUT

ImpReITol= ImpAbsTol=

ConvGain=dbpolar(0,0) SOI= \$11=polar(0,0)

TOI=

S22=polar(0,180) Psat= S33=0

GainCompSat=5.0 dB GainCompPower=

PminLO= NF= NFmin=

GainComp=1.0 dB GainCompFile= ImpNoncausalLength=

Sopt= Rn=

Z1=

ImpMode= ImpMaxFreq=

Fig. 19

